

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 NOV 2022
Team ID	PNT2022TMID17506
Project Name	Project – Personal Expense Tracker
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form. Registration through Gmail.
FR-2	User Confirmation	Confirmation via OTP. Confirmation via Email.
FR-3	Add expenses	Enter day-to-day expenditure as input. Categorise the expenditure.
FR-4	Remainder mail	Sending reminder mail to the user if he/she has not filled any form of mandatory inputs.
FR-5	Creating Graphs	Graphs showing day-to-day and weekly expenses. Categorical graphs on expenditure.
FR-6	Add salary	Users must enter their salary at the start of every month, without fail.
FR-7	Export CSV	User can export the raw data of the expenditure for their own reference, in the form of a CSV file.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A web application with an user-friendly UI and great level of accessibility.
NFR-2	Security	The OAuth Google sign in and email login are well secured with hashed credentials.
NFR-3	Reliability	Containerized service ensures that a new instance comes into picture at the time of failure.
NFR-4	Performance	To ensure a decent and consistent performance, the load is managed through the load balancer used with docker.
NFR-5	Availability	Service is always available with the presence of load balancing and multiple container instances.
NFR-6	Scalability	To accommodate scaling based on any requirements, Docker and Kubernetes are designed.